

ATGGCTCTGGGCCAACGTGGCATCCTACTGTTCTGGCTTTCTGGGTGTGGCCATCCCC  
AGGTTCAAACCTGGGAAGTCGAATCGTGGGAGGGCATGCTCCCCAGCAGGCACATGCCGTG  
GCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGTGGAGGGCTCCCTGCTCAGTCCAGAATGG  
GTGCTCACAGCAGCCCAGTCTCTGGGTCTGTGAACCTCGTCTGATTATCAGGTGCACTTGG  
GAGAGCTTACGGTCACACTGTCTCCCCACTTCTCCACTGTAAAACGGATCATCATGTACACTGG  
CTCTCCAGGACCACCGGGTCCAGTGGGACATTGCCCTGGTGCAGCTGTCCTCCCCGGTGGCC  
CTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCAGAGGCCTCAGCTGACTTCTACCCCTGGGATGC  
AGTGCTGGGTGACTGGCTGGGCTATACAGGGGAGGGAGAGCCTCTGAAGCCCCCATACAACCT  
TCAGGAGGCCAAAGTCTCTGTGGTGGATGTAAGACCTGCAGCCAGGCTTACAATAGTCCCAAT  
GGCAGCCTCATCCAGCCAGACATGCTATGCCCGGGCCCTGGGATGCCCTGCCAGGATGACT  
CTGGAGGGCCACTAGTCTGCCAGGTGGCTGGAACCTGGCAGGCCGGCGTTGTCAGCTGGGG  
TGAGGGCTGTGCCGCCCTGACGCCCTGGCGTCTATGCCCGGGTTACTGCCTATGTAACACTGG  
ATCCACCACCATCCCGAACAGGGGCTCAGGAATGCAAGGGCTCCCTGGCTCCTCTCC  
TGGCTGCCCTCTGGCCAAGCCTCTCCTGCTGCTGGTCTCTGGAGTCCTGATGGCCAAGTA  
CTGGCTGAGCTCCCTCCCACGCCCTCGGAACCTGAAATGAGGTGTAGCAACCAACCCAAAG  
TGTCTTCTTAAATAAGTTAGTGTATTCAAGTTGCTTGGCCCTCCCTCCCTAGCTTG  
ACTTAGGAAGCCAAAGTTCTGCATCAGATTATTGCAACATTAAACCTGAATTGTAGAACGG  
ATGACATAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

MALGPNCIGLLFLAVSGCGHPQVSNSGSRIVGGHAAPAGTWPWQ  
ASLRLHKVHVCGGSLLSPEWVLTAAHCFSGSVNSSDYQVHLGELTVTLSPHFSTVKRI  
IMYTGSPGPPGSSGDIALVQLSSPVALSSQVQPVCLPEASADFYPGMQCWVTGWGYTG  
EGEPLKPPYNLQEAKVSVDVKTCSQAYNSPNGSLIQPDMLCARGPGDACQDDSGGPL  
VCQVAGTWOQAGVVSWGEGCGRPDRPGVYARVTAYVNWIHHHIPEAGGSGMOGLPWAP

LLAALFWPSLFLLVSGVLMKYWLSSPSHAASEL (SEQ ID NO:2)

## FIGURE 1

# Construct

Gene: 372

GI Number(s): 6103630

Gene Family: Protease

Gene Subfamily: Serine Protease

Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

```

ATGGCTCTGGGGCCCACTGTGGCATCCTACTGTTCTGGCTGTTCTG [GGTGTGGCCA
TCCCCAGGTTCAAACACTCGGAAAGTCGAATCGTGGGAGGGCATGCTGCCCAAGCAGGCAC
ATGGCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGT] GTGGAGGCTCCCTGC
TCAGTCCAGAAATGGGTGCTCACAGCAGCCCCACTGCTCTCTGGTCTGTGAACCTCGTCTG
ATTATCAGGTGCACTTGGGAGAGCTTACGGTCACACTGTCTCCCCACTT [CTCCACTGTA
AAACGGATCATCATGTACACTGGCTCTCCAGGACCACCGGGGTCAGTGGGACATTGCC
CTGGTGCAGCTGCTCCCGGTGGCCCTTCCAGCAGGTCCAGCCTGTGTGCCTCCCA
GAGGCCTCAGCTGACTTCTACCCCTGGGATGCAGTGTGGTACTGGCTGGGCTATACA
GGGGAGGGAG] AGCCTCTGAAGCCCCATACAACCTCAGGAGGCCAAAGTCTCTGTGGT
GGATGTAAGAACCTGAGCCAGGCTTACAATAGTCCAATGGCAGCCTCATCCAGCCAGA
CATGCTATGGCCCCGGGGCTGGGGATGCCAGGATGACTCTGGAGGGCCACTAGT
CTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGGCTGTCAAGCTGGGTGAGGGCTGTGG
CCGCCCTGACCGCCCTGGCGTCTATGCCCGGTTACTGCCTATGTAAACTGGATCCACCA
CCACATCCCAGGAAAGCAGGGGGCTCAGGAATGCAAGGGCTCCCTGGCTCTCCCTGGC
TGCCCTCTCTGGCCAAGCCTCTCCCTGCTGTGGCTCTGGAGTCTGTGGCAAGTA
CTGGCTGAGCTCTCCCTCCCACGCAGGCTCGGAACCTGTGAATGAGGTGTAGCAACCAACC
CAAGTGTCTTCTAAATAAGTTAGTGTATTCAAGTTGCTTGTGCCCCCTCCCTCCCT
TAGCTTGACTTAGGAAGCAAAGTTCTGCATCAGATTATTGCAACATTAACCTGAA
TTTGTAGAACGGATGACATAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

```

## Gene Sequence Structure

\*

164 bp

Sequence Deleted

287 bp

Size of full-length  
cDNA: 1122 bp

FIGURE 2A

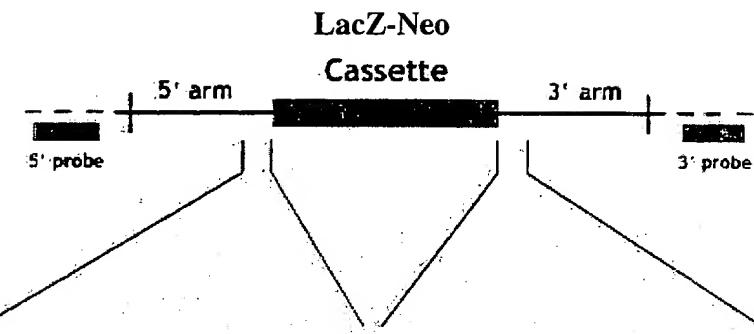
## Targeting Vector\* (genomic sequence)

Construct Number: 1607

Arm Length:

5': 6 kb

3': 0.7 kb



Targeting Vector

Endogenous Locus

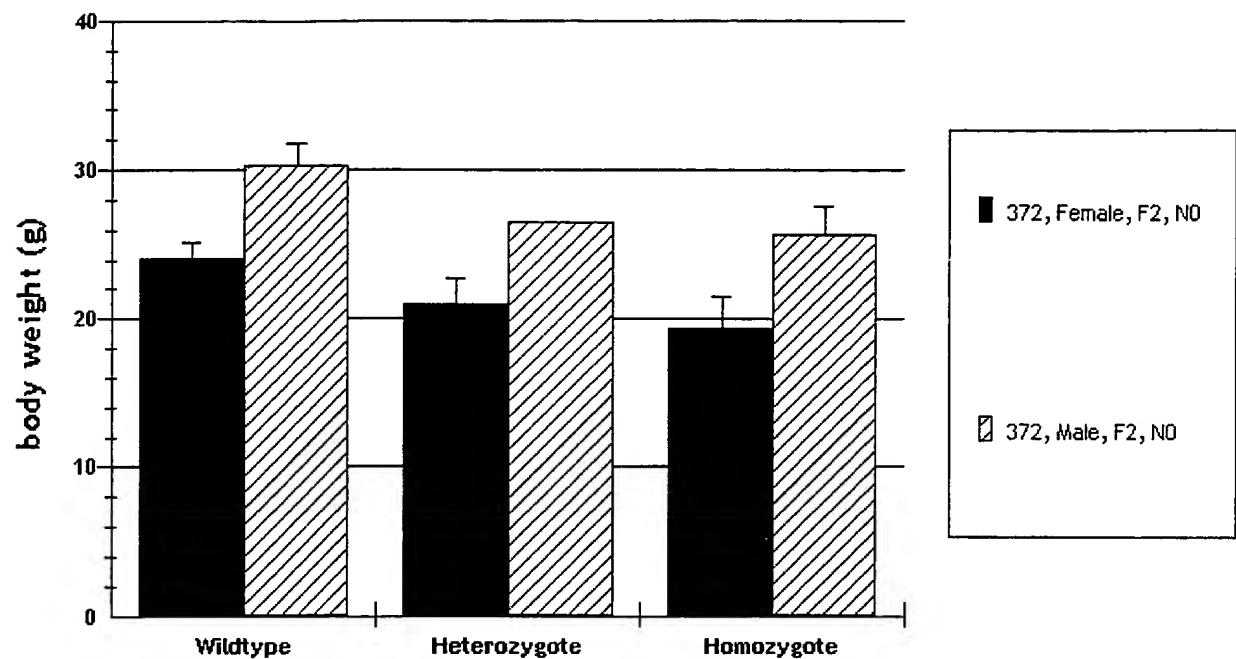
Not drawn to scale

5'>GGAGTCATGGAGGGCTCCAG AGAAAGGGCATTGAGCAGAATGCC GGTCTCCAGATTCCCTCACCAACA GTGTCTCTCTGGATCAGGGTGTG GCCATCCCAGGTTCAAACCTCGG GAAGTCGAATCGTGGGAGGGCATG CTGCCCCAGCAGGCACATGGCGT GGCAGGCTAGCCTCCGTCTGCACA AGGTGACGTGT<3' (SEQ ID NO:3)	5'>CTCCACTGTAAAACGGATCAT CATGTACACTGGCTCTCCAGGACC ACCGGGGTCAGTGGGACATTGC CCTGGTGCAAGCTGTCTCCCCGGT GGCCCTTCCAGCCAGGTCCAGCC TGTGTGCCCTCCCAGAGGCCTCAGC TGACTTCTACCCCTGGGATGCAGTG CTGGGTGACTGGCTGGGCTATAAC AGGGGAGGGAG<3' (SEQ ID NO:4)
---	--

FIGURE 2B

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### necropsy - body weight

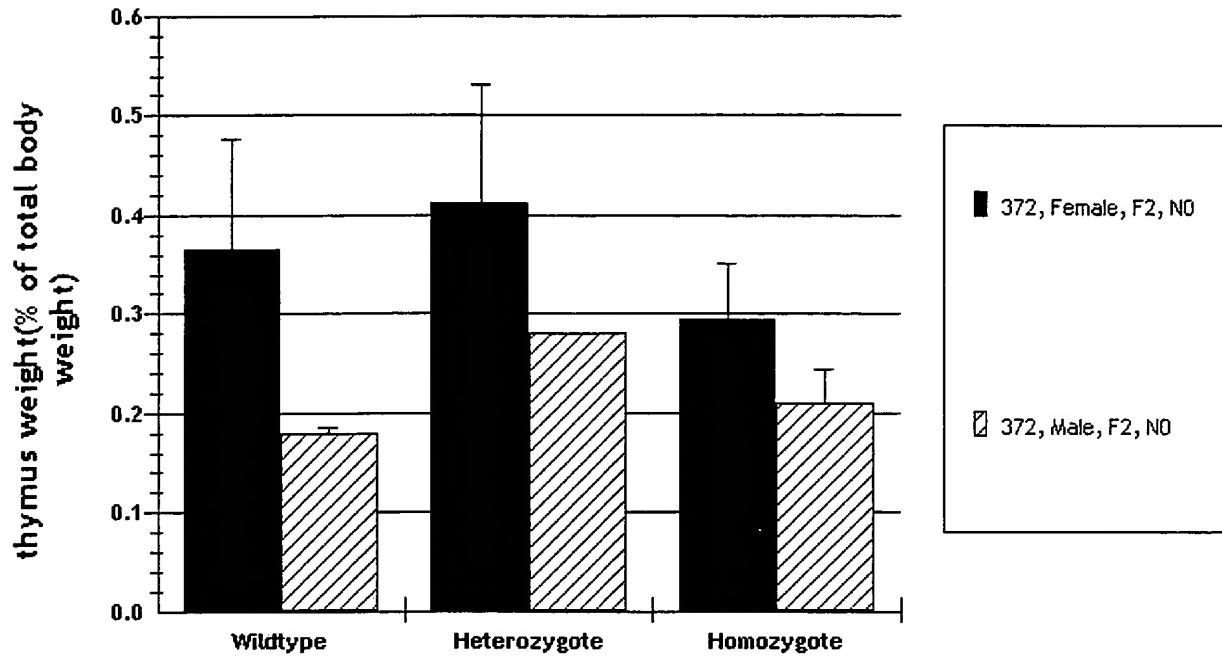


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**FIGURE 3**

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## necropsy - thymus weight/body weight



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FIGURE 4

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## Phenotypic Data Summary - Startle Response Amplitude

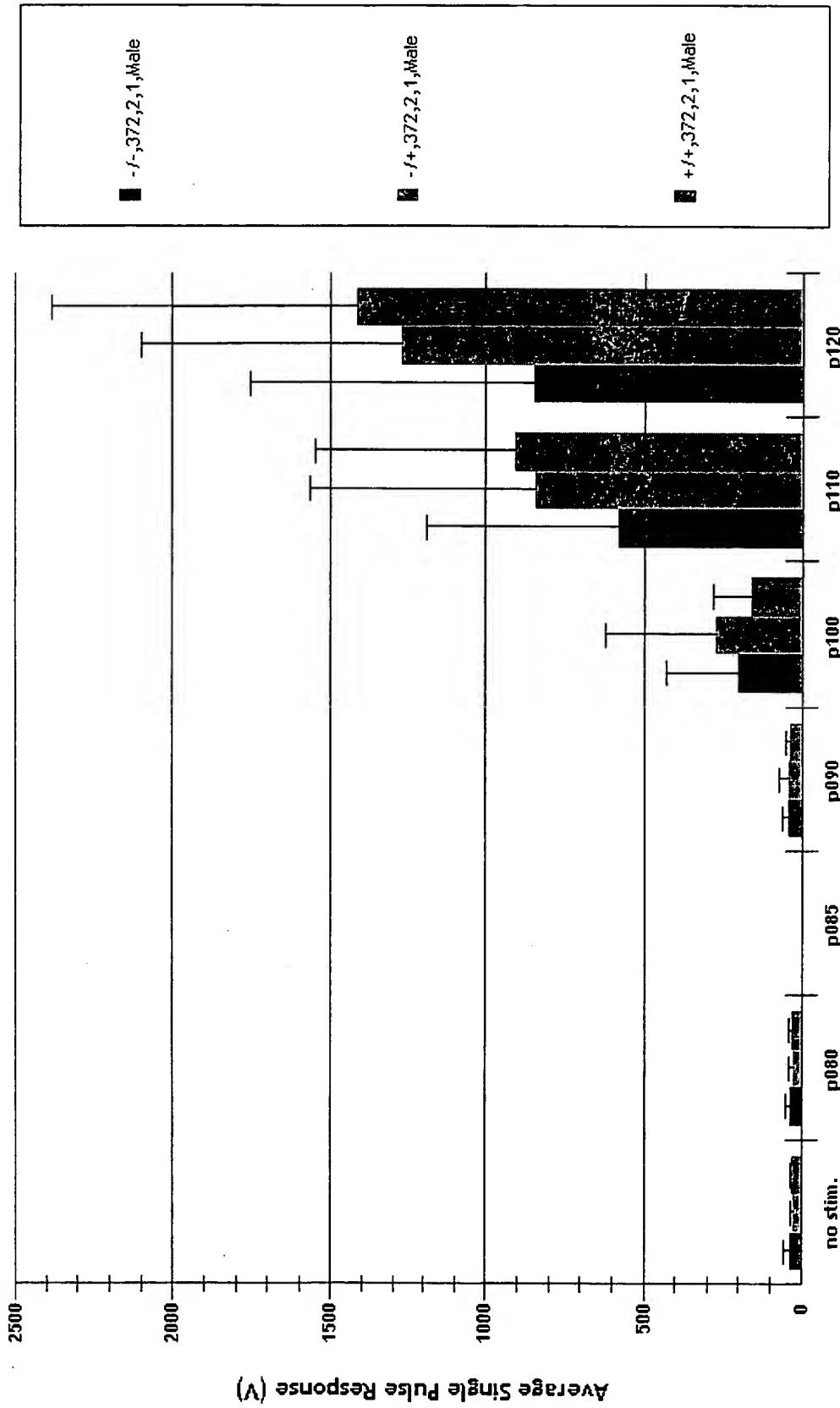


FIGURE 5